

| ROUTING AND TRANSMITTAL SLIP                                  |                      | Date             |
|---------------------------------------------------------------|----------------------|------------------|
|                                                               |                      | 4/24/85          |
| TO: (Name, office symbol, room number, building, Agency/Post) |                      | Initials Date    |
| 1. C/PROCUREMENT MANAGEMENT STAFF/OL                          |                      |                  |
| 2.                                                            |                      |                  |
| 3.                                                            |                      |                  |
| 4.                                                            |                      |                  |
| 5.                                                            |                      |                  |
| Action                                                        | File                 | Note and Return  |
| Approval                                                      | For Clearance        | Per Conversation |
| As Requested                                                  | For Correction       | Prepare Reply    |
| Circulate                                                     | For Your Information | See Me           |
| Comment                                                       | Investigate          | Signature        |
| Coordination                                                  | Justify              |                  |

## REMARKS

#1 - FOR APPROPRIATE ACTION, IF REQUIRED

cc: D/LOGISTICS  
D/COMMUNICATIONS

45-1

STAT DO NOT use this form as a RECORD of approvals, concurrences, disposals, clearances, and similar actions

STAT EO/DDA 7D18 HQS  
STATOPTIONAL FORM 41 (Rev. 7-76)  
Prescribed by GSA  
FPMR (41 CFR) 101-11.206EXECUTIVE SECRETARIAT  
ROUTING SLIP

| TO:      |           | ACTION | INFO | DATE | INITIAL |
|----------|-----------|--------|------|------|---------|
| 1        | DCI       |        |      |      |         |
| 2        | DDCI      |        |      |      |         |
| 3        | EXDIR     |        | X    |      |         |
| 4        | D/ICS     |        |      |      |         |
| 5        | DDI       |        | X    |      |         |
| 6        | DDA       | X      |      |      |         |
| 7        | DDO       |        |      |      |         |
| 8        | DDS&T     |        | X    |      |         |
| 9        | Chm/NIC   |        |      |      |         |
| 10       | GC        |        |      |      |         |
| 11       | IG        |        |      |      |         |
| 12       | Compt     |        |      |      |         |
| 13       | D/Pers    |        |      |      |         |
| 14       | D/OLL     |        |      |      |         |
| 15       | D/PAO     |        |      |      |         |
| 16       | SA/IA     |        |      |      |         |
| 17       | AO/DCI    |        |      |      |         |
| 18       | C/IPD/OIS |        |      |      |         |
| 19       | NIO       |        |      |      |         |
| 20       |           |        |      |      |         |
| 21       |           |        |      |      |         |
| 22       |           |        |      |      |         |
| SUSPENSE |           | Date   |      |      |         |

## Remarks

TO #6: Please prepare appropriate response and provide ER with an information copy.

Executive Secretary  
23 April 85

Date

DDA SUBJECT FILE COPY

25-1470

**APPLIED SCIENCE ASSOCIATES, INC.**

P.O. BOX 2687

PALOS VERDES PENINSULA, CA 90274-0125

Executive Registry

85- 1680

DD/A Registry

85-1470

April 17, 1985

Mr. William Casey, Director  
Central Intelligence Agency  
Washington, D. C. 20505

Dear Sir,

I am interested in learning whether your agency employs contractors for the purpose of providing technical assistance. If you have a need for assistance in the areas indicated in the attached resume, please direct the enclosed information to the appropriate people. As an example of how we might be of assistance, I have enclosed a brief evaluation of a Russian nuclear reactor used in earth satellites, using information drawn from unclassified sources.

Applied Science Associates, Inc. (ASAI) is a small business established in 1980 to provide technical assistance to government agencies. It has provided consulting services to Sandia National Laboratories, Brookhaven National Laboratory, R and D Associates, Logicon and the U. S. Nuclear Regulatory Commission (NRC).

I would be the principal investigator in any program for your agency and have had extensive past experience in the defense industry at The Aerospace Corporation (from 1973 - 1980) and Sandia National Laboratories (from 1969 - 1973) in a number of areas related to nuclear weapons development, tests and hardening against the effects of nuclear weapons and earth satellites.

A resume and list of publications are attached. I can provide references (government contract monitors) who are familiar with our work upon request. If there is further interest and additional information is desired, please call at the phone number below.

Sincerely,

*David G. Swanson*

David G. Swanson, Ph.D.  
(213) 541-8607

**REFERENCES (GOVERNMENT TECHNICAL CONTRACT MONITORS)**

**Mr. Andrew Marchese  
U. S. Nuclear Regulatory Commission  
Washington, D. C.  
20555**

**(301) 492-4712**

**Dr. William Morris  
U. S. Nuclear Regulatory Commission  
Washington, D. C.  
20555**

**(301) 443-7946**

**Mr. William Menczer  
U. S. Nuclear Regulatory Commission  
Washington, D. C.  
20555**

**(301) 492-4854**

**Page Denied**

Next 8 Page(s) In Document Denied

Unclassified Publications Related to Advanced Reactor Systems

D. G. Swanson, J. N. Castle, P. D. Anderson and I. Catton, "Core Melt Materials Interactions - Final Report", USNRC, NUREG/CR-3299, 1983

J. N. Castle, I. Catton, J. L. Dooley, R. P. Hammond, W. E. Kastenbergl and D. G. Swanson, "State of the Art of Reactor Containment Systems, Dominant Failure Modes, and Mitigation Opportunities", USNRC, 1984 (to be published)

D. G. Swanson, I. Catton and V. K. Dhir, "A Thoria Rubble Bed for Post Accident Core Retention," Proceedings of the Fifth Post-Accident Heat Removal Information Exchange Meeting (Karlsruhe, Germany), July 28-30, 1982, p. 307

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D. G. Swanson, J. N. Castle, P. D. Anderson and I. Catton, "Core Melt Materials Interactions - First Annual Report", Applied Science Associates, Inc., Palos Verdes Peninsula, Ca., 1981

D. G. Swanson, H. L. L. van Paassen and A. R. Marchese, "Molten Core Interactions with Commercial Firebricks", American Nuclear Society Transactions, 32, 525 (1979)

D. G. Swanson, E. H. Zehms, R. A. Meyer, J. D. McClelland and H. L. van Paassen, "Evaluation of Materials for Retention of Sodium and Core Debris in Reactor Systems", USNRC, NUREG/CR-0900 (1979)

D. G. Swanson, E. H. Zehms, R. A. Meyer, J. D. McClelland and H. L. van Paassen, "Annual Progress Report for Evaluation of Materials for Retention of Sodium and Core Debris in Reactor Systems", The Aerospace Corporation, ATR-79(7814)-1 (1978)

D. G. Swanson, E. H. Zehms, H. L. L. van Paassen and A. R. Marchese, "Interactions Between Molten Core Debris and Reactor Materials", American Nuclear Society Transactions, 28, 524 (1978)

D. G. Swanson, et. al., "Evaluation of Materials for CRBRP Core Retention", USNRC, NUREG/CR-0076 (1978)

D. M. Goddard, G. D. Kidwell and D. G. Swanson, "Small Scale Sodium-Concrete Reaction Studies", The Aerospace Corporation, ATR-78(7706)-1 (1978)

Unclassified Publications Related to Advanced Reactor Systems  
(Continued)

D. G. Swanson, E. H. Zehms, D. M. Goddard, C. Y. Ang, H. L. L. van Paassen, G. D. Kidwell and A. R. Marchese, "Interactions Between Molten Core Debris and Containment Materials", American Nuclear Society Transactions, 27, 659 (1977)

D. G. Swanson, E. H. Zehms, C. Y. Ang, H. L. L. van Paassen and A. R. Marchese, "Molten Core Debris Interactions with Core Containment Materials", Proceedings of the 3rd Post-Accident Heat Removal Meeting, ANL-78-10, 408 (1977)

D. G. Swanson, D. M. Goddard, E. H. Zehms, J. D. McClelland, R. A. Meyer, H. L. L. van Paassen and G. D. Kidwell, Annual Progress Report, "Evaluation of Materials for CRBRP Core Retention", The Aerospace Corporation, ATR-77(7608)-2 (1977)

D. G. Swanson, E. H. Zehms, C. Y. Ang, J. D. McClelland, R. A. Meyer, and H. L. L. van Paassen, "Annual Progress Report for Ex-Vessel Core Catcher Materials Interactions", The Aerospace Corporation, ATR-77(7608)-1 (1976)

D. G. Swanson, D. M. Goddard, J. McClelland, and R. A. Meyer, "Sodium-Graphite and Sodium-Concrete Interactions Experiments", The Aerospace Corporation, ATR-77 (8162)-1 (1976)

D. G. Swanson and N. T. Porile, "Statistical-Model Calculation of the Angular Distribution of ( , n) Reaction Products", Phys. Rev. C, 1, 4 (1970)

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D. G. Swanson and N. T. Porile, "Angular Distribution of  $^{137\text{m},9}\text{Ce}$  from the  $^{134}\text{Ba}(\text{ , n})$  Reaction", Nucl. Phys. A144, 355 (1970)